

IN THE CLAIMS:

Please amend the claims as follows:

1 (currently amended). A method of making a device comprising:

forming two electrodes on a substrate in a plane that is substantially parallel to a top surface ~~surface~~ plane of the substrate;

creating an electric field between the two electrodes; and

forming a waveguide in a cavity between the two electrodes in the presence of the electric field, wherein the waveguide is formed in the plane of the two electrodes that is substantially parallel to the top surface plane of the substrate.

2 (original). The method of claim 1, wherein the two electrodes are lithographically-defined on a substrate.

3 (original). The method of claim 2, wherein the waveguide comprises an organic crystal material.

4 (original). The method of claim 3, wherein the organic crystal material comprises an organic molecule comprising:

a doner portion, and

an acceptor portion coupled to the doner portion via a conjugated

backbone.

5-11 (cancelled).

12 (currently amended). A method of making an electro-optic modulator comprising:

forming two electrodes on a substrate in a plane that is substantially parallel to a top surface plane of the substrate;

depositing a dielectric layer at least partially between the two electrodes;

creating an electric field between the two electrodes;

forming a waveguide over the dielectric layer in the presence of the electric field wherein the waveguide is formed in ~~the plane of~~ a cavity between the two electrodes ~~that is substantially parallel to the top surface plane of the substrate~~; and

depositing a top cladding over the waveguide.

13 (original). The method of claim 12 further comprising:

polishing the waveguide prior to depositing the top cladding.

14 (original). The method of claim 13 further comprising:

polishing the waveguide down to a top surface of the two electrodes.

15 (original). The method of claim 12, wherein forming of the waveguide further comprises:

growing a crystal by a controlled cooling of a melt .

16 (original). The method of claim 15, wherein the crystal comprises an organic molecule comprising a donor, an acceptor, and a conjugated backbone.

17 (original). The method of claim 12, wherein forming of the waveguide further comprises:

growing a crystal by controlling a rate of evaporation of a solution.

18 (original). The method of claim 17, wherein the crystal comprises an organic molecule comprising a donor, an acceptor, and a conjugated backbone.

19 (original). The method of claim 12, wherein forming of the waveguide further comprises:

aligning dipole moments of the waveguide with the electric field as the waveguide crystallizes.

20 (original). The method of claim 12 further comprising:

applying a voltage to the two electrodes to modulate a light signal in

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the waveguide.

21-28 (cancelled).